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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,860	10/30/2003	Tim C. Lieuwen	17625.0062	8067
29052 7590 12/14/2007 SUTHERLAND ASBILL & BRENNAN LLP 999 PEACHTREE STREET, N.E.			EXAMINER	
			FREAY, CHARLES GRANT	
ATLANTA, GA 30309			ART UNIT	PAPER NUMBER
			3746	
			MAIL DATE	DELIVERY MODE
			12/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,	Application No.	Applicant(s)				
	10/696,860	LIEUWEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Charles G. Freay	3746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 28 Se	eptember 2007.					
	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-3,33 and 40-54</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>3,33 and 41-54</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2 and 40</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 Certified copies of the priority documents 	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>5/2004</u> .	5) Notice of Informal P	ratent Application				
S. Patent and Trademark Office	,					

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I in the reply filed on September 28, 2007 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims, 1 and 40 are rejected under 35 U.S.C. 102(b) as being anticipated by The article "OPTICAL AND ACOUSTIC SESNING OF LEAN BLOWOUT PRECURSORS", by Muruganandam et al (hereafter AIAA).

AIAA discloses a system and method for optically sensing and measuring the intensity of a flame in a combustor with an optical measuring device (Figs. 1 and 2), and using the signal from the measuring devise in a blowout precursor detection unit to perform raw data analysis or spectral analysis on the signal and identify the precursor (note the Data Analysis section).

The examiner notes that the instant case is a CIP of 10/603,039 and that the material related to an optical detector and sensor was added in the instant application and has a priority date of October 30, 2003. Therefore, the disclosure at the Joint

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Propulsion Conference & Exhibit on July 7-10, 2002 by some of the applicants is prior art under 35 USC 102(b).

Claims 1, 2 and 40 are rejected under 35 U.S.C. 102(b) as being anticipated by Shu et al (USPN 5,544,478).

Shu et al discloses a system and method for detecting blowout precursors by using an optical detector (470) to measure flame intensity (col. 1 lines 49, 50) and sending a signal to a blowout precursor detection unit (700) which performs a spectral analysis using a Fourier transform (714, Fig. 2) to determine the blowout precursor and further control the fuel flow (at 610) with a combustion controller (500).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 40 is rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-27 of U.S. Patent No. 7,089,746.

Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 40 sets forth the step of receiving "combustion data measured by a combustor measuring devise" while the claims of the patent set forth using a pressure measuring device to gather combustion pressure data. The pressure measuring device and the pressure data of the patent are more narrow recitations of the combustion data and the combustion measuring device of the application. Therefore, the claims of the application are broader than the claims of the patent and one of ordinary skill in the art performing the method of the patent is also performing the method of claim 40 in the application.

Allowable Subject Matter

Claims 3, 33 and 41-54 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Minott et al and JP ('025) disclose optical detection systems for gas turbine combustors and Lucenko et al discloses a method and apparatus for detecting blowout.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles G. Freay whose telephone number is 571-272-4827. The examiner can normally be reached on Monday through Friday 8:30 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examine
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CGF November 10, 2007